

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. (CURRENTLY AMENDED) A motor function test system comprising a chair for a motor function test comprising a seat endowed with at least one pressure sensor and armrests each endowed with at least one pressure sensor, means suitable for detecting inclinations of ~~the~~ a torso of a subject, an electronic data processor to receive signals emitted by ~~said~~ at least one of ~~said pressure sensor~~ sensors and from said means when stimulated, and to collect said signals and process ~~the~~ corresponding descriptive parameters.
2. (CURRENTLY AMENDED) The motor function test system according to claim 1, further comprising at least one pair of optical detectors placed at ~~the~~ a beginning and at ~~the~~ an end of an established route which said subject must encounter.
3. (CURRENTLY AMENDED) The motor function test system according to claim 1, wherein ~~the~~ transmission of the signals from said pressure sensors, from said means and from ~~said~~ a pair of optical detectors to said electronic data processor is carried out using wireless technology.
4. (CURRENTLY AMENDED) The motor function test system comprising a chair for a motor function test endowed with at least one pressure sensor positioned on ~~the~~ a seat, means suited to detecting inclinations of ~~the~~ a torso of a subject, at least one pair of optical detectors placed at ~~the~~ a beginning and end of an established route which a subject must encounter, an electronic data processor to receive ~~the~~ signals emitted by said at least one pressure sensor, by

said means and by said pair of optical detectors when stimulated, and to collect said signals and process the corresponding descriptive parameters.

5. (CURRENTLY AMENDED) The motor function test system according to claim 4, wherein ~~the~~ transmission of the signals from said pressure sensors, from said means and from said pair of optical detectors and said electronic data processor is carried out using wireless technology.

6. (CURRENTLY AMENDED) The motor function test system comprising a chair for a motor function test endowed with at least one pressure sensor positioned on ~~the~~ a seat, means suited to detecting inclinations of ~~the~~ a torso of a subject, an electronic data processor to receive ~~the~~ signals emitted from said at least one pressure sensor and from said means when stimulated, and to collect said signals and process ~~the~~ corresponding parameters, wherein ~~the~~ transmission of the signals to said electronic data processor is carried out using wireless technology.

7. (CURRENTLY AMENDED) The motor function test system according to claim 1, further comprising an interface for ~~enabling/disabling the~~ enabling and disabling acquisition of said signals towards said electronic data processor.

8. (CURRENTLY AMENDED) The motor function test system according to claim 1, wherein said at least one of said pressure ~~sensor~~ sensors is mounted onto a flexible support.
9. (CURRENTLY AMENDED) The motor function test system according to claim 8, wherein said at least one pressure sensor is a thin resistive sensor made with a sensitive film placed between two flexible polymeric sheets, wherein said at least one of said pressure ~~sensor~~ sensors is ~~a of the type~~ Interlink Electronics Europe FSR154 on the seat, is and wherein said at least one pressure sensor ~~of the type~~ is an Interlink Electronics Europe FSR648AS on the armrests.
10. (PREVIOUSLY PRESENTED) The motor function test system according to claim 1, wherein said means suitable for detecting inclination of the torso of a subject comprise a pair of inclinometers.
11. (PREVIOUSLY PRESENTED) The motor function test system according to claim 4, wherein said means suitable for detecting inclination of the torso of a subject comprise a pair of inclinometers.
12. (PREVIOUSLY PRESENTED) The motor function test system according to claim 6, wherein said means suitable for detecting inclination of the torso of a subject comprise a pair of inclinometers.
13. (CURRENTLY AMENDED) The motor function test system according to claim 10, wherein said pair of inclinometers comprise a first inclinometer appointed to measure the inclinations of the torso of a subject in ~~the~~ an anterior-posterior plane and a second inclinometer appointed to measure the inclinations of the torso of said subject in ~~the~~ a mediolateral plane.

14. (CURRENTLY AMENDED) The motor function test system according to claim 11, wherein said pair of inclinometers comprise a first inclinometer appointed to measure the inclinations of the torso of a subject in ~~the~~ an anterior-posterior plane and a second inclinometer appointed to measure the inclinations of the torso of said subject in ~~the~~ a mediolateral plane.

15. (CURRENTLY AMENDED) The motor function test system according to claim 12, wherein said pair of inclinometers comprise a first inclinometer appointed to measure the inclinations of the torso of a subject in ~~the~~ an anterior-posterior plane and a second inclinometer appointed to measure the inclinations of the torso of said subject in ~~the~~ a mediolateral plane.

16. (CURRENTLY AMENDED) The motor function test system according to claim 10, wherein said pair of inclinometers are ~~of the type~~ Midori Precision PMP-S30TX.

17. (CURRENTLY AMENDED) The motor function test system according to claim 10, wherein said pair of inclinometers are mounted onto a support constructed in such a manner as to allow the orientation of ~~the~~ respective planes of maximum sensitivity of said inclinometers perpendicularly to one another.

18. (PREVIOUSLY PRESENTED) The motor function test system according to claim 17, wherein said support comprises an inner plate and a parallel outer plate connected to one another in such a manner as to rotate one with respect to the other around an axis perpendicular to their plane.

19. (PREVIOUSLY PRESENTED) The motor function test system according to claim 18, wherein said inner plate is movably mounted onto an elasticized strap through a buttonhole and is engaged with two braces through two corresponding buttonholes so that a subject may wear said pair of inclinometers.

20. (PREVIOUSLY PRESENTED) The motor function test system according to claim 2, wherein said at least one pair of optical detectors are represented by two pairs of photocells or two pairs of photocell-reflectors or similar devices suitable for detecting the passage of a subject through them.

21. (CURRENTLY AMENDED) The motor function test system according to claim 7, wherein said interface ~~enables/disables~~ enables and disables the acquisition of the electrical signals originating from said pressure sensors and/or pair of inclinometers and/or pair of optical detectors.

22. (CURRENTLY AMENDED) The motor function test system according to claim 3, wherein said transmission of the ~~electronic~~ signals uses radiofrequency systems, ~~in particular~~ carried out according to the Bluetooth 1.1 international standard or the like.

23. (CURRENTLY AMENDED) The motor function test system according to claim 1, further comprising a button connected to said electronic data processor to indicate ~~the a~~ a beginning and ~~possibly the an~~ an end of the various stages of which the motor function test is composed.

24. (CURRENTLY AMENDED) A method for the acquisition and collection of signals and their processing into the corresponding parameters for a motor function test comprising the following stages in sequence: a) providing a motor function test system according to claim 1; b) applying to a subject to be tested ~~the~~ means suitable for detecting inclinations of ~~the a~~ a torso of said subject; c) detecting ~~the~~ pre-established movements of such subject by said means and ~~possibly said at least one of said~~ possibly said at least one of said pressure ~~sensor~~ sensors and ~~possibly or~~ possibly or the optical detectors; d) transmitting ~~the~~ signals corresponding to said detection achieved in stage c) to the electronic data processor; e) collecting and processing said signals originating from said at least one pressure

sensor and/or from said means and/or from said optical detectors in such a manner as to obtain parameters representative of the degree of ambulation and or posture of said subject.

25. (CURRENTLY AMENDED) The method according to claim 24, wherein said detection stage c) is achieved by detecting variations in pressure and/or inclination and/or the passing ~~respectively~~ between said pressure sensors, ~~said means and said at least one pair of optical~~ sensors.

26. (ORIGINAL) The method according to claim 24, wherein said transmission stage takes place using cable or wireless technologies.

27. (CURRENTLY AMENDED) The method according to claim 24, wherein said stage of collection and processing of the signals originating from said pressure sensors and/or from said means and/or from said at least one pair of optical sensors by said electronic data processor comprises the transformation of the signals into ~~the~~ digital data from which said parameters are obtained.

28. (ORIGINAL) The method according to claim 27, wherein the aforementioned parameters are numerical morphological parameters which may be further processed and combined with the aim of obtaining a single performance index.